

Temperature Measurement	B57560
Glass-Encapsulated Sensors	G 560

Applications

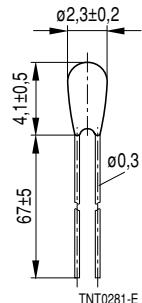
- Automotive electronics
- Industrial electronics
- Home appliances

Features

- Glass-encapsulated, heat-resistive and highly stable
- For temperature measurement up to 300 °C
- Fast response
- Leads: dumet wires (copper-clad FeNi)

Options

Leads: nickel-plated wires



Dimensions
in mm

Delivery mode

Bulk

Climatic category (IEC 60068-1)		55/300/56	
Max. power at 25 °C	P_{25}	50	mW
Resistance tolerance	$\Delta R_N/R_N$	± 1 %, ± 3 %, ± 5 %	°C
Rated temperature	T_N	25	mW/K
Dissipation factor (in air)	δ_{th}	approx. 1,3	s
Thermal cooling time constant (in air)	τ_c	approx. 15	mJ/K
Heat capacity	C_{th}	approx. 20	

R_{25} Ω	No. of R/T characteristic	$B_{25/85}$ K	$B_{0/100}$ K	$B_{25/100}$ K	Ordering code
2 k	8401	3420	$3390 \pm 1 \%$	3436	B57560G0202+
5 k	8402	3480	$3450 \pm 1 \%$	3497	B57560G0502+
10 k	8407	3480	$3450 \pm 1 \%$	3497	B57560G0103+
20 k	8415	3992	$3970 \pm 1 \%$	4006	B57560G0203+
30 k	8415	3992	$3970 \pm 1 \%$	4006	B57560G0303+
50 k	8403	3992	$3970 \pm 1 \%$	4006	B57560G0503+
100 k	8404	4066	$4036 \pm 1 \%$	4085	B57560G0104+
230 k	8405	4240	$4537 \pm 1 \%^{1)}$	4264	B57560G0234+
1400 k	8406	4557	$5133 \pm 2 \%^{2)}$	4581	B57560G0145+

+: F000 for $\Delta R_N/R_N = \pm 1 \%$; F002 for $\Delta R_N/R_N = \pm 1 \%$ for nickel-plated wires

H000 for $\Delta R_N/R_N = \pm 3 \%$; H002 for $\Delta R_N/R_N = \pm 3 \%$ for nickel-plated wires

J000 for $\Delta R_N/R_N = \pm 5 \%$; J002 for $\Delta R_N/R_N = \pm 5 \%$ for nickel-plated wires

1) $B_{100/200}$

2) $B_{200/300}$

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Reliability data

Test	Standard	Test conditions	$\Delta R_{25}/R_{25}$ (typical)	Remarks
Storage in dry heat	IEC 60068-2-2	Storage at upper category temperature $T: 300\text{ }^{\circ}\text{C}$ $t: 1000\text{ h}$	< 3 %	No visible damage
Storage in damp heat, steady state	IEC 60068-2-3	Temperature of air: 85 °C Relative humidity of air: 85 % Duration: 56 days	< 2 %	No visible damage
Rapid temperature cycling	IEC 60068-2-14	Lower test temperature: – 55 °C Upper test temperature: 200 °C Number of cycles: 1000	< 2 %	No visible damage

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Corporate Communications, P.O. Box 80 17 09, 81617 Munich, GERMANY

✉ +49 89 636 09, FAX (0 89) 636-2 26 89

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